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WINTER 2025 - 2026

Supplier Showcase Issue



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Industry Suppliers Take Center Stage

By John O'Brien, Managing Editor
jobrien@paperage.com

You'll notice that this Winter issue of PaperAge is a little different. Beyond industry news and a few other familiar items, we've dedicated the bulk of the feature content to our industry's suppliers via "branded content."

The suppliers you'll read about in this issue take on a vital role in the pulp, paper and paper converting industry. Through their continuing R&D and engineering efforts, these suppliers work hand-in-hand with pulp and paper makers to keep their mills running more efficiently, operate reliably and safely, improve product quality, and remotely monitor just about anything you can think of.

When you really think about it, where would mills be without them. The two big machine suppliers — **Valmet and Voith** — offer mind-boggling technology in their paper machines and wide range of ancillary equipment, which they install, take part in commissioning and maintain for as long as a mill needs their service.

Need something related to steam? **Deublin** knows steam, especially for paper machine dryer sections. With a vast selection of rotary joints and syphons, the company can design, supply and install many different steam and condensate systems.

And speaking of steam, **Nationwide Boiler** is an industry leader when it comes to boilers. The company is involved in virtually every aspect of the boiler industry including boiler system sales, leasing, turnkey installations, boiler parts, operations, service and repair.

Rolls; they're everywhere in paper manufacturing and converting. This is where **Precision Roll Grinders** steps up. From wet-end to dry-end, from the recovery area to converting, PRG regrinds and refurbishes rolls, spools, drums, pulleys, dryers, and trunnions from the lime kiln. And, PRG is capable of holding tolerances down to +/- 20 millionths of an inch.

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VM5 Lighting Solutions says 'let there be light — in virtually any environment.' The company's H2L Series delivers up to 40,500 lumens in an environment temperature of 260 °F (125 °C), which addresses the lumen drop issue with many high environment temperature LED applications.

Need a doctor? . . . blade, that is. **Essco** is a leader in doctoring and has outfitted some of the world's largest and fastest paper machines. The company manufactures doctoring systems, doctor blades, creping blades, coater blades, blade holders (rigid, conforming, and creping), oscillators, as well as provides doctor system consulting and service.

When it comes to optimizing pulp or paper-making machines, **IBS Paper Performance Group** conducts customized audits and service through a global sales and service network and applies the results and potential operational savings from the installation of IBS's new, unique product line known as **maXX™**.

The name says it all — **SealRyt**, a leader in rotating shaft sealing technology. SealRyt products have a history of transforming pulp and paper applications with exceptional return on investment.

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But don't just take my word for it. Take a look through this issue to get a better idea of what these specialists can do.

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NORTH AMERICA

Sofidel to Expand Tissue Capacity in U.S with Installation of New TAD Machine

Sofidel recently announced plans to expand its tissue production capacity in the United States with an investment that includes the installation of a Valmet TAD (Through-Air-Dried) tissue machine, along with related converting lines for the manufacture of finished products.

Sofidel said the decision to install the new machine, which will have the capacity to produce 75,000 metric tons per year of tissue, is based on the growing demand in the North American market.

The location for the machine, intended to be within one of Sofidel's existing U.S. facilities, has not yet been finalized. The company is currently engaging with various public authorities



to finalize the project.

"With this new, significant investment, we are putting down even stronger roots in the United States, improving our ability to meet customer demand and further enhancing our capacity to supply first-quality products through TAD technology," said Luigi Lazzareschi, CEO of Sofidel.

Start-up of the new machine is scheduled

for Q2 2028.

In September of 2025, Sofidel successfully started up a Valmet DCT 200 tissue machine, PM3, at its integrated paper mill in Circleville, Ohio, boosting the number of machines at Circleville to three.

Overall, the Sofidel Group now operates 14 production sites across 11 U.S. states — Idaho, Nevada, Arizona, Oklahoma, Minnesota, Illinois, Mississippi, Florida, Ohio, South Carolina, and North Carolina — and has a corporate office in Horsham, Pennsylvania. In just over 10 years, the Group has become the fourth-largest tissue producer in the North American market.

PCA to Permanently Shut Down No. 2 Containerboard Machine at Wallula Mill

Packaging Corporation of America ("PCA") said that it will permanently shut down the No. 2 paper machine (W2) and kraft pulping facilities at its Wallula, Washington, containerboard mill. PCA will continue to operate the No. 3 paper machine (W3) and recycled pulping facilities at the mill.

After the announced actions, which are expected to be completed by the end of the first quarter 2026, the mill will have capacity to produce 285,000 tons per year of high-performance recycled linerboard and corrugating medium on the W3 machine, which is a reduction of 250,000 tons of annual production capacity at the mill.

The W2 machine has approximately 140,000 tons of annual capacity to produce corrugating medium and has been idled since May 2025.

The mill is expected to produce approximately 400,000 tons of containerboard this year.

PCA expects a reduction in headcount of approximately 200 positions.

The new configuration is expected to lower the production cost at the mill by approximately

\$125 per ton from 2025 levels due to an improved cost structure and utilization rate.

The 250,000 tons of reduced capacity will be replaced with production enhancements at other PCA mills beginning in the fourth quarter of 2026.

"We recognize the impact of decisions like this on our employees and will provide support through this process," said Mark Kowlzan, Chairman and CEO of PCA. "We greatly appreciate their efforts and our decision is not a reflection on their performance. We are taking these steps to support the future viability of the mill and improve our efficiency and cost position, while continuing to invest in our future growth.

"We face a challenging and worsening cost environment at the Wallula mill. Wood fiber and purchased power costs are by far the highest in our system, making the currently configured mill no longer competitive. By operating as a single-machine, recycled mill, we will streamline operations at the facility and significantly lower our cost of production, while continuing to produce high quality containerboard for our plants and customers.



"We have significantly invested in the W3 machine and its capabilities after we converted it to containerboard in 2018. Moving some production to lower-cost PCA facilities where we are investing in production improvements will further optimize our mill system, resulting in even greater efficiencies," Kowlzan explained.

PCA President Tom Hassfurth added, "We remain committed to growing with our customers and will have sufficient containerboard capacity to do so. We have approximately 140,000 tons per year of high-performance, low-cost, lightweight linerboard capacity scheduled to come up at our Jackson mill in the fourth quarter 2026 under previously approved projects that are in progress. Additional improvements at the acquired Greif facilities and at our Counce mill will replace the remaining capacity as and when required by our customers."

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NORTH AMERICA

Arcadia Paper Mills Completes Purchase of St. Helens Tissue Mill in Oregon

Arcadia Paper Mills, LLC and the City of St. Helens (“St. Helens”) in December completed the purchase/sale of the former Cascades tissue mill located at 1300 Kaster Road in St. Helens, Oregon.

The sale process between Arcadia and St. Helens began in April of 2024.

Arcadia bought the site for \$7.5 million. St. Helens received approximately \$2.8 million upfront after covering closing costs and reducing debt from the Boise Cascade site purchase a decade earlier, per a city spoke person. Arcadia will pay the remaining \$3.4 million in monthly installments starting in November, with the full balance due in January 2031.

No opening date for the mill has been set.



According to St. Helens, Arcadia Paper Mills was formed by a group of investors and industry experts to acquire and restart the mill. Craig Allen, a former mill manager responsible for tissue operations at the mill in the 1990s, worked with investors and former employees to complete the due-diligence work and assemble a team to commission and restart

the paper mill.

St. Helens noted that Arcadia has already hired 15 employees from the local community to repair and commission the mill infrastructure.

Mill History

Packaging Corp of America in 2013 acquired the pulp and paper division of Boise Cascade, and the St. Helens mill was part of the sale. Just a short time later, PCA sold the mill to Cascades, who operated the mill until its permanent closure in October of 2023. At the time of the closure, the St. Helens mill was operating just one of its two tissue machines, producing about 50,000 short tons of brown 100% recycled tissue paper.

Saica Breaks Ground for Construction of New Corrugated Packaging Plant in Ohio

Saica Group officially kicked-off construction of its new corrugated manufacturing facility in Anderson, Indiana, with a ground-breaking ceremony held at the site at the end of October 2025.

“Saica is committed to stability and long-term growth in the U.S.,” said Susana Alejandro, President and CEO of Saica Group. “This investment is proof that we are moving forward with our plans in the U.S. as we are convinced that we can provide products that will differentiate us in a crowded market. It reflects our deep commitment to delivering exceptional service, as we believe our knowledge and experience in the production of lighter-weight containerboard and corrugated packaging will bring high-performance packaging to the U.S. market while becoming more efficient in the use of materials.”

The new plant in Anderson will be the second Saica Pack plant in the U.S.



In April of 2022, Saica Group started production of corrugated packaging at its new plant in Hamilton, Ohio — a 360,000 square-foot facility that includes manufacturing, converting and production areas, along with a warehouse and office space. The plant has a production capacity over 1,500 MSF/year of corrugated board.

In Anderson, the nearly 350,000-square-foot facility will produce more than 1,200,000

MSF of corrugated packaging and will rely heavily on the connected railroad line for shipping of paper rolls.

The Anderson site will also serve as a backup plant for Saica Pack in Hamilton, to reinforce supply chain security. The site will include manufacturing, converting and production areas, along with a warehouse and office space. The Anderson plant is scheduled to open in Q4 2026.



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NORTH AMERICA

Kruger Products to Build New TAD Tissue Mill in Western U.S.

Kruger Products has announced plans to build a new tissue mill in the western United States. The new plant will feature a through-air-dry (TAD) tissue machine, along with related converting lines.

The new TAD machine will have an annual production capacity of approximately 75,000 metric tonnes and is estimated to start production in 2028.

Kruger Products said the new facility

will allow it to better service its fast-growing U.S. business with ultra-premium tissue products.

Location selection is in the final stages and will be announced along with project scope and financing details at a later date, the company noted.

“This new tissue investment will be made within an unrestricted subsidiary of Kruger Products and is subject to obtaining

financing on satisfactory terms,” the company stated in an earnings report. “The project is currently expected to be financed 40% by equity and incentives as well as 60% by project finance debt.

“This new facility, along with our Memphis plant and 9 existing Canadian plants, gives us a strong network to service our growing North American business,” the company added.

PaperWorks Acquires Manitowoc, Wisconsin-based Color Craft Graphic Arts

PaperWorks Industries has acquired Color Craft Graphic Arts, a producer of packaging for food, beverage, and household goods.

“This acquisition aligns with our strategy of growth and further supports our ongoing investment and commitment to our customers,” says Brian Janki, President and CEO of PaperWorks. “Color Craft meets our criteria for geographic alignment with our mill system and folding carton network, diverse customer mix, and overall cultural fit.”

Founded in 1929, Color Craft is an all-inclusive folding carton business that



offers sheeting, printing, cutting, and gluing at its facility in Manitowoc, Wisconsin. The company has 120 employees.

Gregg Weber, President and CEO of

Color Craft, who joins the PaperWorks team, added, “We are thrilled to join an organization that emulates our values and has an outstanding reputation in the industry. This is a great opportunity for the Manitowoc team to thrive within a larger folding carton network and leverage mill integration to deliver the highest level of service to our customers.”

With the addition of Color Craft’s folding carton facility, PaperWorks expands its fully integrated folding carton network to include two paperboard mills and six converting facilities across the United States and Canada.

SOUTH AMERICA

Suzano Starts-Up New Fluff Pulp Production Line at Limeira Mill in Sao Paulo

Suzano in mid-December started operations at its new fluff pulp production line located in its Limeira mill in Brazil’s São Paulo state. This R\$490 million investment increases Suzano’s total fluff pulp production capacity by more than 400%, from 100,000 to 440,000 tonnes per year.

The project, which Suzano first announced in October of 2023, involved converting the existing pulp line at the Limeira unit into a flexible machine, capable of producing both

Eucafluff® and market pulp.

Eucafluff is used in the production of absorbent and personal hygiene products, such as baby and adult diapers, sanitary pads and pet pads, while market pulp is used for making products such as toilet paper, printing and writing papers, and paper packaging.

Launched in 2015, Eucafluff is the world’s first fluff pulp made from eucalyptus, delivering unique advantages like enhanced softness and flexibility, which translate into thinner,



more discreet and comfortable products. Its high compression capability enables smaller packaging, reducing plastic film usage and lowering transportation and storage costs for the industry.

NORTH AMERICA

Domtar Permanently Closes Crofton Pulp Mill in British Columbia

Domtar in December permanently closed operations at its pulp mill in Crofton, British Columbia, Canada.

The decision reduces Domtar's annual pulp production by approximately 380,000 air-dried metric tons of northern bleached softwood kraft (NBSK) pulp.

The closure affects approximately 350 employees.

"The Crofton mill has been challenged for some time now," said Steve Henry, Domtar paper and packaging president. "Over the last 18 months, Crofton employees worked hard to reduce operational costs and they made some extraordinary gains. Unfortunately, continued poor pricing for pulp and lack of

access to affordable fiber in BC necessitates the closure.

"These decisions are made with careful consideration and we recognize the hardship this decision will have on both our employees and the Cowichan Valley community as well as our business partners and the coastal forest sector," Henry said.

The site will continue to be managed in compliance with all applicable environmental (and other) laws, including under Domtar's existing Environmental Management Act permits.

Domtar said it's exploring a variety of possibilities for the future of the site.

The Crofton mill also has two paper



machines—C2 and C3—both of which ceased production in early December 2022 due to weakening Chinese paper markets and escalating costs of chemicals, energy and wood fiber.

Domtar noted that it is committed to its remaining mills in BC and to working with the government and industry partners to improve access to affordable fiber.

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EUROPE

Sappi and UPM to Combine their European-based Graphic Paper Businesses in JV

Sappi Limited and UPM-Kymmene Corporation on Dec. 4 announced the signing of a non-binding letter of intent to form a non-listed, independent 50/50 joint venture (“JV”) for graphic paper. The JV will bring together Sappi’s European Graphic Paper business with UPM’s Communication Papers business in Europe, the UK and the US.

The transaction will be subject to the fulfillment of a number of regulatory and other conditions, including shareholder approval. The parties intend signing definitive agreements during the first half of calendar year 2026 and expect to close the proposed transaction by the end of calendar year 2026, once all conditions precedent are fulfilled.

Commenting on their decision to create the JV, Sappi Limited CEO Steve Binnie and UPM President and CEO Massimo Reynaudo said, “The proposed joint venture represents a decisive response to the structural changes in the European graphic paper industry, offering a path to strengthen its resilience and provide long-term commitment and supply security to customers.”

Binnie said, “Sappi is very excited by the potential that this joint venture, if approved, will bring. We have been searching for a solution to secure a long-term profitable future for our European business. This innovative partnership with UPM will deliver a focused business bringing the best assets and people together to create a strong future which can ensure sustained support for our customers and can also ensure that the European manufacturing base is protected.

“The launch of this proposed JV takes place against a backdrop of sustained



structural decline in demand within the graphic paper market alongside overcapacity and low utilization rates of assets. This significant erosion has been caused by a number of factors including a structural shift toward digital media, declining print advertising revenues, falling newspaper and magazine circulations, and the rapid adoption of electronic media and workflows.

“This deterioration has been further intensified by rising costs (in particular energy) in Europe. Recent trade tensions and tariffs have further disrupted trade flows resulting in increased Asian exports to the European Union,” Binnie concluded.

Some of the key benefits of the consolidation of assets are:

1. By strategically reallocating production volumes to the most efficient paper machines, the JV will achieve more sustainable capacity utilization and stronger operational performance, while continuing to serve customers with a broad portfolio of European graphic paper products.
2. The operational synergies created through the JV are anticipated to be at least EUR 100 million per year once the transaction is implemented.

3. The proposed transaction will be structured to enable the parties to respectively contribute the assets (detailed below) to the newly formed JV with Sappi and UPM as founding shareholders and each holding 50% of the issued shares.

Assets Involved in the JV

Sappi and UPM will sell their respective businesses and assets mentioned below to the newly formed JV with a combined enterprise value of EUR 1,420 million excluding the value of the expected synergy benefits.

Sappi will contribute the following assets: Gratkorn Mill (Austria); Ehingen Mill (Germany), Maastricht Mill (The Netherlands), and Kirkniemi Mill (Finland); as well as Sappi Europe’s wood supply Joint Ventures.

UPM will contribute their Communication Papers business assets which are located at the following UPM mills: Augsburg (Germany), Schongau (Germany), Nordland paper lines 1 and 4 (Germany), Rauma including UPM RaumaCell (Finland), Kymi (Finland), Jämsänkoski paper line 6 (Finland), Caledonian (United Kingdom), and Blandin (USA).

EUROPE

Metsä Board Completes EUR 60 Million Modernization at Simpele Mill

Metsä Board has completed an EUR 60 million modernization project at its Simpele paperboard mill in Finland, marking a significant milestone in product performance. The upgraded board machine is now fully operational, and the renewed MetsäBoard Classic FBB folding boxboard is available for customer deliveries.

The latest upgrades elevate paperboard quality to a new level, while supporting Metsä Board's transition toward fossil-free production. The introduction of modern curtain coating technology enhances print quality and visual uniformity.

"Our customers face increasing pressure to meet stricter sustainability and safety standards while also managing cost efficiency and waste

reduction," explained Esa Kaikkonen, CEO at Metsä Board. "We want to help our customers stay ahead and lead the pack — by offering solutions that are safe, reliable, and deliver excellent material efficiency, with a high-quality print surface for brand promotion."

The investment included a full rebuild of the coating section, expansion of the coating color kitchen, and installation of a new pallet packaging line.

Previously, 89% of the energy used in production at the Simpele mill was fossil-free. With the new technology now in place, that figure will rise to 98%.



Metsä Board Simpele mill, located in Simpele in Southeast Finland, produces high-quality lightweight folding boxboard. The mill has about 270 employees and the capacity to produce 300,000 tonnes per year of paperboard.



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EUROPE

Metsä Tissue Starts-up New Tissue Production Line at Mariestad Mill

Metsä Tissue has started full-scale production at its expanded and modernized tissue paper mill in Mariestad, Sweden. The EUR 370 million investment doubles the mill's annual tissue paper capacity to 145,000 tonnes, significantly strengthening the local supply of high-quality tissues, like Lambi, Serla, and Katrin products for both consumers and professional customers across Scandinavia.

Valmet supplied the new Advantage DCT 200 TS tissue machine and converting lines for the modernization project.

The new state-of-the-art tissue paper machine, supported by three converting lines



for rolled and folded tissues, boosts capacity and efficiency to serve Scandinavian consumer and professional tissue markets. Increased local production shortens delivery times,

lowers transport emissions, and improves supply reliability.

The new paper machine technology enables improved energy efficiency and reduces water use considerably, marking a major step forward in tissue production and enabling lower emissions per each tonne produced.

Lastly, a fully automated high-bay warehouse and laser-guided automated vehicles ensure faster and safer handling of finished goods and materials. This also improves delivery reliability through streamlined logistics and real-time inventory control.

International Paper Proposes Closure of Five Packaging Facilities in Germany

International Paper announced a proposal for the closure of five sites in Germany, comprising of one conventional box plant, one display and offset site and three sheet plants as well as a partial closure of one display site.

IP said the closures are intended to improve efficiencies and are in response to the evolving needs of its customers in tough trading conditions.

IP expects that, subject to mandatory employees' information and consultation procedures, these proposals would be

implemented by the end of 2026 and that approximately 500 roles may be affected.

The proposal follows a strategic review by the Central European business as part of International Paper's transformational journey to become a stronger sustainable packaging solutions company. IP's goal is to optimize its existing resources to better serve its customers and to position the business optimally for growth.

A consultation process with employee representatives is underway and, until such



time as it has progressed, IP cannot comment further on its scope or the potential impact on employees.

Palm Group Acquires 50% Stake in Power Packaging in the Czech Republic

German paper and packaging producer Palm Group has acquired a 50 percent stake in Power Packaging s.r.o., which consists of one production plant located in Nýrsko in western Czech Republic.

Power Packaging specializes in the production of complex corrugated cardboard packaging and generates annual revenues of approximately EUR 4 million.

According to Palm, the joint venture is strategically expanding its packaging division in the area of complex and customized corrugated packaging, which involves a high proportion of manual work. Furthermore, the involvement of Palm ensures that Power Packaging will remain a family-owned business in the long term, sharing the same mindset and business principles.

"Through this joint venture, we are strengthening our position in the European market for complex packaging solutions and will be able to offer our customers an even broader product range in future," said Dr. Marina Palm, CEO of Palm.

Power Packaging will continue to operate within its existing structure and with the same management team.

EUROPE

Feldmuehle to End Papermaking in Uetersen, Germany

German paper producer Feldmuehle announced that it is permanently ending paper production at its paper mill in Uetersen, Germany, after 120 years of operation.

The company cited market events and an unhelpful regional government as factors in its decision.

Feldmuehle in June of this year filed for insolvency under self-administration and has since been in the process of restructuring.

In a December 9, 2025 letter, Feldmuehle said: “In recent years, our company has made high-quality, capital-intensive investments in sustainability and energy efficiency. We have optimised and modernised processes committed ourselves to training the next generation, developed new products and reduced our costs—all in a highly competitive environment.



“We were confident that we would achieve a turnaround. Unfortunately, due to unplanned market events, the inconclusive discussion on industrial electricity prices and ever-increasing new bureaucratic hurdles, we have come to the conclusion that we will no longer be able to continue production at our site in Uetersen in a sufficiently competitive

manner in the long term — it is not economically viable to maintain operations.

“It seems that there is no desire for energy-intensive industry to remain in Germany. We have therefore ceased paper production and will be finishing, selling and shipping the paper produced in the coming weeks.”

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McDonald's Not Sold on Environmental Benefits of Reusable Plastic Packaging in Europe

McDonald's has released a comprehensive report, "The Complex Reality of Reusable Packaging in Europe", which questions the environmental benefits that the European Union says will be achieved through the implementation of its new Packaging and Packaging Waste Regulation.

In a nutshell, the EU's new law aims to: make all packaging on the EU market recyclable in an economically viable way by 2030; safely increase the use of recycled plastics in packaging; and decrease the use of virgin materials in packaging and put the sector on track to climate neutrality by 2050.

McDonald's October 2025 report provides analysis using "real-life" data from McDonald's supply chain and restaurants in Europe, comparing reusable plastic packaging versus single-use fiber and plastic packaging.

The following are excerpts from "The Complex Reality of Reusable Packaging in Europe", which presents insights into the potential environmental, operational and financial impacts of introducing reusable packaging in McDonald's restaurants:

At McDonald's, we use a wide range of guest packaging and believe that hygiene, food safety, quality, functionality and sustainability are critical aspects to packaging design. We strive to accelerate solutions that reduce packaging waste, transition to more sustainable packaging materials, move away from virgin fossil fuel-based plastics and promote circularity. As of year-end 2024, 90.93% of our global



"We believe there is not one solution to advancing circularity; it requires fact-based dialogue and evidence among stakeholders — including leveraging business expertise." – McDonalds Corp.

primary guest packaging¹ (95.2% in Europe) was sourced from renewable, recycled or certified materials.

¹ Primary guest packaging: Single-use fiber and plastic packaging used to package guest food and drinks on premises at McDonald's restaurants that is given to customers in all order channels.

Recognizing that reducing the use of plastic and substituting plastic with certified or recycled paper are two of the key interventions to address plastic pollution, we are removing or reducing plastic use by re-designing packaging items. For example, we have partnered with our suppliers to advance technologies to replace plastic lids and sundae ice cream cups with innovative fiber solutions. Most of McDonald's primary guest packaging is fiber-based (82% globally and 96% in Europe as of year-end 2024), meaning it is primarily made from materials such as paper, pulp, cardboard or wood.

In addition to designing our packaging for recyclability, we are working to help advance the recycling of guest packaging globally. In 2024, 89.6% of restaurants in markets with advanced infrastructure offered guests the opportunity to recycle and/or compost packaging items, with customer-facing bins for back-of-house or off-site sorting. We are also working with external partners to establish and improve recycling.

We believe there is not one solution to advancing circularity; it requires fact-based dialogue and evidence among stakeholders — including leveraging business expertise. Solutions need to consider implications at each stage of the value chain, be tailored to sector and local conditions, be rooted in customer safety and hygiene, and balance economic, environmental and consumer outcomes.

Introducing Reusable Packaging

Reusable packaging is packaging for food and beverages that customers can use and then return to a business, such as a restaurant, where it is washed and then reused for another customer. Reusable packaging is viewed by some policymakers as a solution to reduce packaging and plastic waste, which has led to regulatory requirements that limit the use of single-use packaging materials or mandate reusable packaging. These regulations apply to the foodservice industry, encompassing businesses that prepare and serve food and beverages outside of the home, including restaurants, cafés, hotels and catering services.

The analysis shows an overall negative environmental impact of reusable packaging compared to single-use packaging when implemented against the EU PPWR requirements in 2030.

Environmental Impact - Key Findings

For reusables to reach the breakeven² point or have comparable or lower environmental impacts compared to single-use packaging, an optimal number of uses must be achieved. The number of uses achieved is impacted by items that are not returned by customers, as well as items that may be returned but not reused due to damage.

² The breakeven point is calculated by adjusting the number of reuses in each scenario until the environmental impact is equal to the Single-use scenario.

For takeout, the average number of reuses observed is very low, due to a low number of customers returning the reusables. For dine-in, where reusable packaging items are not intended to leave the restaurant, a higher number of reuses has been observed relative to takeout.

Overall, the analysis highlights that introducing reusable pack impact compared to single-use packaging across the impact areas measured and the scenarios modeled.

The analysis shows an overall negative environmental impact of reusable packaging compared to single-use packaging when implemented against the EU PPWR requirements in 2030, which impact over 6,900 McDonald's restaurants in the EU. Across the scenarios, there are varying results dependent on the environmental indicator, which means there are environmental trade-offs.

The results highlight that when reusables are offered for dine-in and takeout in McDonald's restaurants, plastic waste from guest packaging increases. This is due to the shift from McDonald's fiber-based single-use packaging to reusable packaging made entirely from plastic. ■

PUMP PACKING REINVENTED

INTRODUCING THE

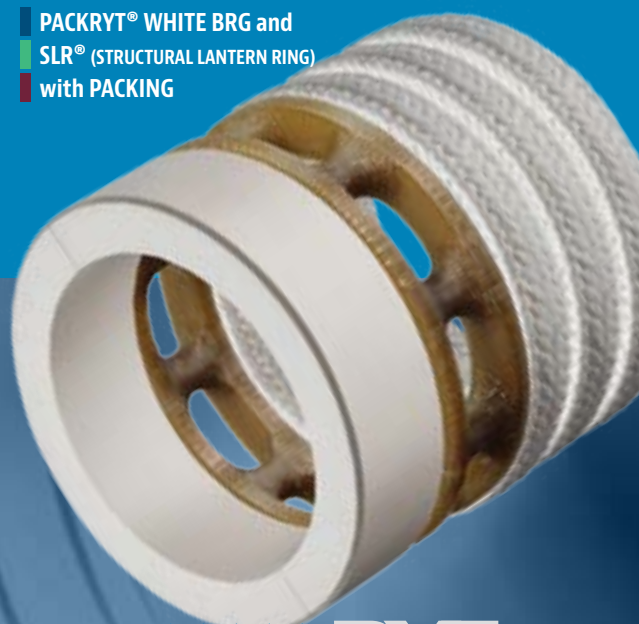
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Our Patented Parts are Designed and Manufactured in Westfield, MA



SCAN to learn more.

- *DS Smith* has appointed **James Lomax** as the new Managing Director for UK and Ireland Packaging, taking over from Paul Clarke effective December 1, 2025. Lomax formerly served as Director of Supply Chain and Operations within DS Smith's EMEA Packaging Division.



James Lomax

- *Elof Hansson* has named **Lennart Eberleh** as its new Chief Executive Officer. Eberleh will succeed **Mikael Forslund**, who, after 10 years as CEO, is leaving his role at his own request to retire during 2026. Forslund will remain in his position until Eberleh takes office, which will be no later than June 2026. Currently, Eberleh is CEO of Swedish market pulp producer Rottneros.



Lennart Eberleh

- *Graphic Packaging Holding Company* has appointed **Robbert Rietbroek** as President and Chief Executive Officer and as a director, effective January 1. Rietbroek succeeds **Michael Doss**, who served as the company's President and CEO since 2016 and mutually agreed with the Graphic Packaging Board of Directors to step down from his role and as a director effective December 31, 2025. Most recently, Rietbroek served as the inaugural CEO and Director of Primo Brands Corporation.



Robbert Rietbroek

- *Mativ* has appointed **Scott Minder** as Chief Financial Officer, effective January 1. Minder succeeds **Greg Weitzel**. Minder formerly held



Scott Minder

the position of SVP, Chief Financial Officer and Treasurer for Hyster-Yale.

- *Metsä Fibre* has appointed **Ari-Pekka Vanamo** as VP, Mill Manager of the Kemi bioproduct mill. Vanamo previously served as Metsä Group's VP, Employment Relations, and has extensive experience in the forest industry as well as in mill management. In a related move, **Pekka Kittilä**, the current VP, Mill Manager of the Kemi mill, takes over as Technical Operations Director of the Kemi mill.



Ari-Pekka Vanamo



Pekka Kittilä

- *Monadnock Paper Mills* has appointed **Andrew Manns** as Chief Executive Officer, following the planned leadership transition initiated by the late **Richard Verney**. Manns brings 30 years of experience with Monadnock, joining the company in 1995 as Vice President of Finance and serving as Chief Financial Officer and Treasurer before being personally requested by Verney to lead the company as CEO.

- *Rayonier Advanced Materials* has appointed **Scott M. Sutton** as Chief Executive Officer, and President, effective January 5. He succeeds **DeLyle Bloomquist**, whose planned retirement was announced late last year. Sutton, former President and CEO of Olin Corporation, brings more than three decades of global leadership experience in the chemicals and materials sectors, including a proven track record of operational



Scott M. Sutton

excellence, disciplined capital allocation, and transformative value creation.

ASSOCIATIONS

- *TAPPI* has appointed **Lawton C. Roberts** as President and Chief Executive Officer, effective November 3, 2025. Roberts succeeds **Larry Montague**, who retired at the end of the year after 19 years of distinguished leadership. Roberts has served as TAPPI's Chief Operating Officer, and has been with the organization since 2017.



Lawton Roberts

RECOGNITION

- *The International Corrugated Packaging Foundation (ICPF)*, co-sponsored by AICC, The Independent Packaging Association and Fibre Box Association (FBA), announced the nomination of **Bryan Hollenbach** for induction into ICPF's Circle of Distinguished Leaders. The program honors exceptional individuals — leaders whose vision, creativity and energy have moved the corrugated industry forward. Hollenbach had a long-standing career in the paper and packaging industry, recently retiring as executive vice president of Green Bay Packaging, a position he held since 2011. He oversaw the company's paper mills, woodlands, and corrugated and paperboard packaging divisions.



Bryan Hollenbach

FEBRUARY 25-28, 2026**ASPI Spring 2026 Meeting**

Assoc. of the Suppliers to
the Paper Industry
Isla Bella Resort
Marathon, Florida, USA
www.aspinet.org

FEBRUARY 26, 2026**Converters Expo South**

BNP Media Packaging Group
Charlotte Convention Center
Charlotte, North Carolina, USA
www.packagingstrategies.com/converters-expo-south

MARCH 10-12, 2026**Sustainability in Packaging US**

Smithers
Chicago, Illinois, USA
www.sustainability-in-packaging.com

MARCH 25-27, 2026**PPC Spring Outlook & Strategies Conference**

Paperboard Packaging Council
Omni Louisville
Louisville, Kentucky USA
paperbox.org/event

MARCH 31-APRIL 2, 2026**Paper & Tissue Show 2026**

Al Furat Fair Organizer
ADNEC Centre Abu Dhabi
Abu Dhabi, United Arab Emirates
paperoneshow.net

APRIL 13-15, 2026**AICC 2026 Spring Meeting**

The Independent Packaging Assoc.
Omni La Costa Resort Carlsbad
Carlsbad, California USA
www.aiccbbox.org

APRIL 15-16, 2026**Converters Expo**

BNP Media Packaging Group
Lambeau Field
Green Bay, Wisconsin, USA
www.packagingstrategies.com/converters-expo

APRIL 15-17, 2026**FBA Annual Meeting**

Fibre Box Association
Lodge at Torrey Pines
La Jolla, California, USA
www.fibrebox.org

APRIL 26-29, 2026**TAPPICon 2026**

TAPPI
Columbus Convention Center
Columbus, Ohio, USA
www.tappicon.org

MAY 10-12, 2026**International Pulp Week**

Pulp and Paper Products Council
Sutton Place Hotel
Vancouver, British Columbia, Canada
internationalpulpweek.com

MAY 12-14, 2026**Paper Meets Live! 2026**

AF&PA and NPTA
Opal Sands Resort
Clearwater Beach
Florida, USA
www.afandpa.org

MAY 27-30, 2026**PACWEST Conference 2026**

PACWEST
Fairmont Jasper Park Lodge
Jasper, Alberta, Canada
www.pacwestconference.com



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Last Chance to Align EU Deforestation Rules with Trade and Sustainability

By Heidi Brock, President and CEO, American Forest & Paper Association (AF&PA)

The EU's deforestation regulation aspires to address an important global issue, but the current version falls short. As amended in December 2025, the regulation continues to create unnecessary trade barriers and impose compliance requirements that don't match up with intent.

With EUDR enforcement postponed once again, the EU Commission has an opportunity to align the regulation with its stated goals. But action must occur before April 30, 2026.

The American forest products industry shares the commitment to strengthening forests and advancing sustainability. We have long been a global leader in environmental stewardship and sustainable forest management. We operate within a circular supply chain, sourcing responsibly managed forest fiber from millions of small private landowners and utilizing leftover materials from sawmills and forest residues.

Importantly, the EU did not have the U.S. in mind when crafting this policy. We are not a deforestation problem. Yet the regulation applies a global one-size-fits-all approach that overlooks these realities. It creates an uneven playing field by easing requirements for EU operators

Importantly, the EU did not have the U.S. in mind when crafting this policy. We are not a deforestation problem. Yet the regulation applies a global one-size-fits-all approach that overlooks these realities.

while leaving U.S. producers burdened with complex, costly obligations and demands for sensitive commercial data.

This imbalance runs counter to the commitments outlined in the August 2025 Joint U.S.-EU Framework Agreement, which pledged to pursue fair and balanced trade. If left unchanged, this regulatory imbalance will disadvantage U.S. businesses, distort trade, and undermine the very environmental goals the regulation seeks to achieve.

The stakes are high. The U.S. pulp and paper sector supplies roughly 60% of the EU's specialty pulp and provides products with virgin fiber essential to sustaining Europe's recycled paper system. If the April window closes without additional

changes, this flow will be disrupted, causing harm to both economies.

EU policymakers must use this window to further simplify a regulation that preserves a strong U.S. trade relationship, avoids reating unfair trade barriers, and recognizes that countries like the U.S. require tailored, practical compliance measures.

This regulation carries with it a heavy compliance burden. One that will fall squarely on American landowners, sawmills, and pulp and paper manufacturing product producers — unless changes are made.

AF&PA urges the European Commission, the U.S. government, and industry partners to continue working together on a framework that strengthens forests and trade. Importantly, this framework must recognize the realities of our different and diverse supply chains.

Now is the moment to match policy with purpose.

The American Forest & Paper Association (AF&PA) serves to advance public policies that foster economic growth, job creation and global competitiveness for a vital sector that makes the essential paper and packaging products Americans use every day. ■



Paper Meets **LIVE!**

2026

Opal Sands Resort • Clearwater Beach, FL

Join Paper Meets LIVE! for dynamic programming and networking designed to strengthen partnerships, celebrate achievement and spark conversations on the challenges and opportunities shaping the U.S. paper products industry.

NEW DATE! MAY 12 - 14, 2026

Who Should Attend?

- Paper industry executives looking to build stronger business relationships through networking and education.
- AF&PA and NPTA members aiming to connect with customers or suppliers in private suites or meeting rooms.
- Executives seeking to expand their network and leadership skills (see NPTA Emerging Leaders Workshop in the schedule).

For information on membership, contact AF&PA at membership@afandpa.org or NPTA at npta@gonpta.com



Registration is open!

Scan the QR Code for the latest schedule, registration information and sponsorship opportunities. Take advantage of early bird pricing through March 13!

Or visit afandpa.org/paper-meets-live-2026

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**American
Forest & Paper
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National Paper
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Your Suction Roll, Our Mission – Tailored Services for Performance Excellence

Suction rolls play a pivotal role in board, paper, tissue and pulp production by handling efficient water removal and securing smooth web transfer in demanding conditions. When it comes to keeping these rolls in top shape, Valmet offers an unmatched combination of services from maintenance to reconditioning and upgrades. It's your suction roll, but our mission.

We all know that suction rolls have a direct effect on end-product quality and machine runnability in the papermaking process. It's also no secret that they consume lots of energy and water. For example, around 30,000 LED light bulbs worth of electricity in drive energy and 1.5 Olympic swimming pools worth of water each month of operation.

"Knowing all this, it is clear that keeping the suction roll in top condition pays back. With regular maintenance roll performance remains good throughout the entire roll lifecycle, leading to reliable machine line operation and improved energy efficiency. Running critical process rolls to the failure can lead to long-lasting repairs and lost production," says Lasse Janhunen, Global Technology Manager at Valmet.

Valmet's comprehensive suction roll service offering covers all needed service actions throughout suction roll lifecycle — from maintenance, reconditioning and grinding to roll covers, shells, and new rolls. Additionally, Valmet's innovative upgrade solutions and on-site roll audits are available for improving suction roll performance and resolving roll-related production bottlenecks.

"We serve our customers with pride



High-precision drilling results in extremely accurate hole positioning and superior hole surface smoothness. An optimal shell drilling pattern ensures efficient and uniform water removal, as well as minimizes the risk of suction hole shadow marking, hole plugging and reduces the noise level.

remotely, on site, and through our global network of fully-equipped Service Centers, with the ambition to improve roll reliability, roll running times, cost efficiency, energy efficiency, and safety — depending on the customer need," Janhunen adds.

Tailored End-to-End Services

Valmet values long-term relationships with their customers, as they enable a strategic and collaborative approach also to roll servicing.

"In addition to on-demand services we help our customers to understand and predict their long-term service needs. With advanced roll diagnostics tools and extensive technology know-how, we can support our customers in roll-related decision-making, whether it's about service intervals, part replacement, technology upgrades, roll covering optimization or even completely new rolls," Janhunen says.

"Having a long-term view on roll maintenance is known to give peace of mind, but it also helps to reduce the overall

maintenance costs. By following the recommended maintenance guidelines and equipping suction rolls with state-of-the-art solutions, our customers can increase the rolls' reliable running times significantly while reducing the number of services needed long term," Janhunen says.

Solving Customer Challenges with Innovative Solutions

As the world-leading roll technology expert, Valmet has developed numerous innovative solutions to tackle the typical challenges with suction rolls — high axial seal wearing, shell cleanliness issues, short grinding intervals, runnability issues, and poor dewatering, to name a few. Most solutions can be utilized to upgrade existing rolls, and they have been successfully implemented at numerous customer mills around the world.

Janhunen brings up a couple of Valmet's solutions that have improved the customer's performance.

“For high axial seal wearing, we have developed a solution called Valmet Suction Roll Upgrade Lock Seal, an automated axial seal construction enabling seal strips to be relieved off from the suction roll shell during running, which improves roll energy efficiency and provides longer life-time for suction roll axial seals and shell. The solution has been highly appreciated, and as one customer states, they ‘would install it anytime again’,” Janhunen says.

“For shell cleanliness issues, we offer Valmet Suction Roll Upgrade Shell Flow H, a high-pressure shell cleaning shower. At a tissue mill in the EMEA area, the installation of Shell Flow H led to extending roll running times from 3-4 months to 12 months,” he continues.

Tailored Roll Covers for Enhanced Process Performance

Roll covers have a direct impact on the machine efficiency and paper quality, and they also have high potential for process improvements. Valmet is known to offer the widest range of roll covers and services for any roll type and position. The latest innovations include roll covers made from recycled and bio-based materials, a grooved roll cover for improved dewatering Valmet Press Roll Cover PE, and Valmet Press Roll Cover PD with ceramic coating for best runnability.

“Our extensive roll cover offering is designed to secure maximal process



Existing rolls can be upgraded with Valmet's latest roll innovations for enhanced performance, improved energy efficiency and extended lifetime. Roll services are provided close to the customer through Valmet's global service network.

performance and production efficiency and includes a full scope of cover technologies and numerous value-adding features and services. With optimized roll covering our customers can protect their suction rolls from corrosion and wear and thus give them a longer running time. Additionally, water removal and overall process efficiency can be improved,” explains Ulla Kanerva, Global Technology Manager at Valmet.

Expertise You Can Count On

Valmet's global service network extends from the America's to Europe, China and Asia Pacific area, and our experts are ready to serve you in all suction roll-related needs, whether it's about keeping the roll running smoothly, bringing it to “as new” condition, or upgrading it to improved performance.

“For those seeking a stress-free life in roll operations, we recommend our roll service agreements. With the systematic approach and shared goals, you will always get the right combination of services for every stage of your roll lifecycle — and no surprises,” Janhunen says.

Real-World Benefits of Valmet's Roll Services

“Again, I would like to lift up a real-life example — a European board mill that has relied on our roll services for over ten years. The agreement covers roll grinding, maintenance and reconditioning of key process rolls of their three board machines,” Janhunen points out.

“We have mutually agreed KPI's to boost roll reliability and efficiency, and our cooperation. Over this time, we've seen extended roll running times and improved performance, optimized servicing leading to savings in total maintenance and spare parts costs, and seamless and more transparent cooperation. As cherry on the cake, we have saved almost 50 tonnes of CO2 thanks to less roll transportation and reduced the roll service lead time by 25% over the agreement period — something to be proud of,” Janhunen concludes. ■



Valmet's roll covers provide excellent wear resistance, stable roughness and hardness, and durability in demanding operating environments, enabling trouble-free run periods together with effective dewatering.

Digital Analysis in the Press Section: NipMaster Increases Efficiency and Quality

With NipMaster, Voith offers a powerful analysis tool that helps papermakers perform data-driven optimizations on the shoe press section of paper machines. The simulation-based evaluations specifically improve drainage, energy consumption and production performance for greater efficiency, sustainability and quality in paper manufacturing.

Efficiency, sustainability and production flexibility are among the key success factors in the paper industry. The basis for advancing these goals is a precise design of the press section. In this context, Voith's NipcoFlex shoe presses have been impressing customers for decades with their reliable performance and robust design.

The main technological advantage of Voith's solution lies in the high press impulse, which is achieved through the interaction of a long dwell time in the nip and an optimized pressure gradient. Both parameters are crucial for maximum dewatering performance and consistently high paper quality. Optimal dewatering is the result of the precise interaction of a position-stable counter roll and a hydraulically pressed, concave pressure shoe — enclosed by a flexible press shell, such as the NipcoFlex sleeve from Voith.

Holistic View of the Press Section

However, the shoe press is only one part of the overall press section system. Experienced paper technologists know that the decisive



Only through careful coordination of the felt, shoe press belt, roll cover and doctoring can efficiency and productivity be significantly increased — and high paper quality guaranteed.

factor is the complex interaction of all components. Only through careful coordination of the felt, shoe press belt, roll cover and doctoring can efficiency and productivity be significantly increased — and high paper quality guaranteed.

NipMaster: Data-Supported Analysis for Optimum Results

Many papermakers have therefore been relying on Voith's NipMaster software tool for years. It enables data-supported analysis of shoe presses and combines the information obtained with state-of-the-art simulation technology, supplemented by decades of practical experience. NipMaster thus provides users with well-founded

approaches for optimizing volume and dewatering concepts.

The tool factors in each machine's specific configuration and supports adaptation to different grammages, among other variables. The results from NipMaster form the basis for optimizing the dry content and dewatering efficiency of the press section. With these insights, all components can be coordinated and optimized.

NipMaster thus provides all the relevant information needed to meet the diverse challenges in the press area in a practical and technologically sound manner.

“With the NipMaster approach, we not only offer technological excellence but also create measurable added value for production

targets,” emphasizes Mario Neumann, Senior Application Manager at Voith. The optimization potential identified by NipMaster has a direct impact on production output and a lasting effect on operating costs.

Having proven its value, Voith has continued to invest in the further development of NipMaster for many years to make shoe press analyses even more precise and comprehensive — with the aim of significantly increasing the effectiveness and efficiency of the entire press section.

Analysis Variety for a Wide Range of Configurations

NipMaster analyses are tailored to every machine configuration — regardless of whether it is a Single, DuoCentri, Tandem or Triple NipcoFlex. The software tool considers the wide range of grammages that are commonplace, especially on board and packaging machines.

“Ranges from 70 to 220 g/m² are not uncommon,” explains Neumann. The challenge here is that as the basis weight increases, the basis weight, initial dry content and machine speed typically change as well, resulting in variable requirements for the dewatering concepts. These must therefore be designed to be flexible and precise. NipMaster has already proven itself many times over as an indispensable tool for papermakers.



The Tandem NipcoFlex (pictured above) provides a good example of how NipMaster works. For an optimal configuration, precise drainage distribution between the first and second nip is crucial.

The software can be used to analyze numerous parameters, such as the current drainage situation, adjustment of the operating volume to specific pressure and water quantities, and optimal coordination of belt surfaces and felts for the respective drainage type, such as tube suction or lateral nip drainage. This holistic approach is essential, as excessive operating volume can have a negative impact on dewatering efficiency.

“Our goal is to precisely calculate and continuously optimize quality — from the surface of the shoe press belt to the counter roll,” says Neumann.

Practical Example Tandem NipcoFlex: Fine Tuning is Crucial

The Tandem NipcoFlex provides a good example of how NipMaster works: For an optimal configuration, precise drainage distribution between the first and second nip is crucial. Typically, the drainage performance

of the first nip is around 75 percent, with the second nip handling the remaining 25 percent. NipMaster analyses can be used to further improve the dewatering profile of the machine by adjusting the roll contact design, optimizing the belt surfaces and avoiding over- or under capacities.

“This level of fine-tuning is comparable to Formula 1 — here, too, the perfect coordination of the smallest parameters determines success,” explains Neumann.

Conclusion

With NipMaster, Voith bundles its comprehensive expertise in the press section. Changes to roll covers, felts or belts are always considered in the context of the entire system. This not only increases dry content, efficiency and runability, but also optimizes existing plants over the long term. It is therefore no surprise that shoe press analysis with NipMaster has established itself as the standard solution in the paper industry. ■



The design of the NipcoFlex shoe with top and bottom parts in combination with an insulation leads to low bending, excellent line load profiles and reduced maintenance effort.

The Next Generation of Old-Fashioned Service at Souhegan Wood Products

By Kathryn Dunn, Chief Operations Officer, Souhegan Wood Products

At the Souhegan Wood Products office here in Wilton, New Hampshire, there are actual phones connected to a wall jack, sitting on actual desks (we still even have a fax machine). When our customers call, the phone is answered by an actual human ready to help. I'm Kathryn Dunn, chief operations officer and great-granddaughter of our family business's founder. And while I don't mind connecting with customers by phone, meeting with folks in person feels like even better business to me.

That's why last October I spent three weeks on the road visiting 13 of our Core Plug customers at paper mills throughout the southeastern United States. It was a priceless opportunity to see our products in action, hear what we could do better, and put a face to names I've spoken to on the phone for a decade.

It was just me and my podcasts, making my way by plane and by car to customers in South Carolina, Louisiana, Arkansas, Oklahoma, Virginia, and Tennessee. As a New Hampshire Yankee through and through, it was nice to get to a part of the country that's still warm in late fall and even nicer to see where our customers call home. It's an area of the country that values time-honored business practices built on hard work, handshakes and trust—the same values that have kept our family business growing for more than 80 years.

I got to hear from Matthew Lewis directly about Green Bay Packaging's new boiler project and how it will help the



company's long-term manufacturing efficiency. Aaron Laimer of Republic Paperboard and I got to sit down and talk about Republic's versatile paper manufacturing and, a bonus, took a tour to see their paper mill in action (including our little Core Plugs holding up a giant roll of paperboard). Over at the Hodge Mill, Mr. Wade Wright told me about how current markets are impacting the paper business — which is always welcome information for our business, too. Sure, we could've had some of those conversations over the phone. But standing with someone in the place where they do business to hear how it's going will always be a more focused and meaningful conversation than a multi-tasking telephone call hundreds of miles apart.

I joke with seriousness that my job is 5% selling Souhegan Wood Products and 95% asking about marriages, children and

“Last October I spent three weeks on the road visiting 13 of our Core Plug customers at paper mills throughout the southeastern United States. It was a priceless opportunity to see our products in action, hear what we could do better, and put a face to names I’ve spoken to on the phone for a decade.”

– Kathryn Dunn

grandchildren, a new boat, if you lost your shirt on the game, or whether you finished that bathroom renovation yet. It was a gift to catch up in person, and I think our customers really appreciated the visit. I know we're incredibly grateful for their patronage in helping grow our little company, and for their honesty when we can do something a little better.

During the trip, I was reminded of how simple it is to just answer the phone with a “hello” and “how can I help you?” This practice has been a part of Souhegan's business for 80 years. I do really believe it has made us a trusted and steady company — where you know you'll get the best service for what you need, every time. Emails, automated phone service, voice mails, texts all work well and have changed how the entire world communicates and conducts business. But a known voice and a human interaction is what we are built



Souhegan Wood Products only uses reclaimed sawdust that comes from other wood industries, not only reducing impact on limited raw materials, but also eliminating landfill waste — a commitment to sustainability that helps customers reach their corporate environmental goals.

on, and that will never change.

As the world leans hard into artificial intelligence with bots and machines that can do everything from make a latte to carry on a conversation, we'll keep one foot in both worlds for now. As a company that thrives on innovation, we adopt technology that improves our products and our service. But as a company built on solving problems by listening to our customers, we'll continue to stop by and say hello whenever we can.

After all, you can't automate a handshake.

About Souhegan Wood Products – Family Owned and Operated

Souhegan Wood Products is a family-owned and operated manufacturer that first recognized the environmental and economic value of recycling wood byproducts over 80 years ago. For four generations, our patented manufacturing

process has combined graded, recycled wood particles with high-strength, thermosetting resins to create a range of pressed-wood products.

Souhegan Wood Products' engineers continually test, inspect, and improve everything we produce, making ours the most innovative and rugged goods on the market. Because we only use reclaimed sawdust that comes from other wood industries, we're not only reducing impact on limited raw materials, but we're also eliminating landfill waste — a commitment to sustainability that helps customers reach their corporate environmental goals.

As we enter into our fourth generation of continuous family ownership, Souhegan Wood Products has become recognized as a world leader in supplying reliable, recycled wood products to quality-conscious partners around the world. To learn more, please visit us at: www.souheganwood.com. ■

CorSaver™ and Center Hole Plugs

A crushed roll of product can cost manufacturers and their customers countless hours, dollars, and headaches. But by simply inserting core plugs into each roll of paper or board, paper mills can reduce damage and loss claims for just pennies per roll. And unlike other manufacturers, Souhegan Wood Products guarantees a steady inventory of the products you need, whenever you need them.



Souhegan Wood Products offers two different types of high-density, molded wood core plugs engineered specifically for the paper industry; the CorSaver Plug, designed for fine coated papers, and the Center Hole plug, which is used for all grades of paper. All Souhegan Wood Products core plugs are flake-free and smooth to the touch.

In addition to standard-sized plugs, Souhegan Wood Products engineers can also custom design core plugs to fit non-standard roll dimensions.

Mill Saves \$150,000 Annually with Precision Roll Grinding

Precision roll grinds for long-term manufacturing success.

Across the paper industry, material savings and energy reductions are critical measures of improved machine performance. With rising costs, efficiency is more important than ever; improving product quality, reducing scrap lowering energy consumption, and increasing machine speed all translate into quantifiable value. One key opportunity to unlock these benefits is through precision roll servicing, which can improve productivity while reducing operating costs.

Tight grind tolerances in total indicator runout (TIR) and concentricity have a significant impact on paper sheet properties, improving quality and reducing process variation. Precision roll servicing includes grinding to tight tolerances for roll profile, concentricity, and roundness, thereby reducing TIR.

Precision roll servicing can help produce paper to specification with less raw material and reduced scrap. It also allows for less aggressive machine settings, such as lower dryer temperatures and reduced roll loading. When the paper machine no longer needs to compensate for poorly ground rolls, energy usage is reduced and mechanical stress on the machine decreases.

One area of the paper machine where this principle is most evident is the press section. Accurate press roll profiles and low roundness deviations maximize dewatering and reduce wet streaks. Uneven cross-direction moisture profiles negatively impact machine runnability, downtime,

energy use, and final product quality. Roll concentricity plays a critical role in press-section performance because it influences nip stability and pressure uniformity across the roll face.

When a roll's rotational alignment deviates from ideal, localized variations in nip pressure can occur during operation, even when the nominal roll profile is within specification. These cyclic disturbances affect groove dewatering, felt contact consistency, and the efficiency of mechanical water removal. Improved roll concentricity reduces geometric runout, allowing the press nip to operate with more uniform pressure distribution. This results in more stable dewatering performance and reduces the need for downstream compensation through vacuum and drying systems.

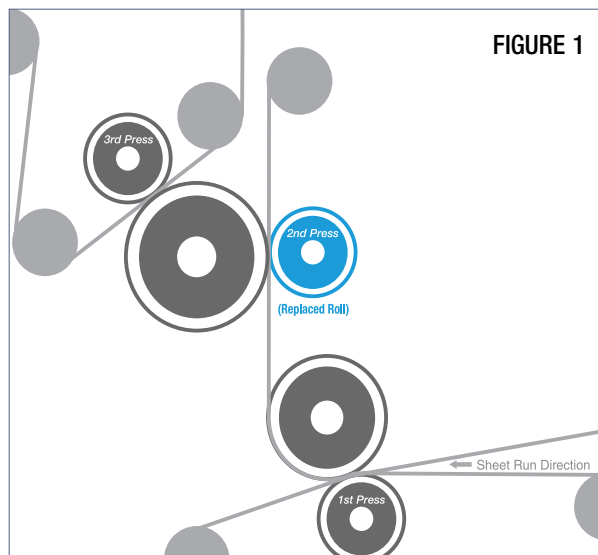
Water removal in the press section is significantly more efficient than water removal in the dryer section. A commonly accepted relationship between water and fiber in the paper web is that for every 1% reduction in moisture achieved in the press section, there is approximately a 4% reduction in dryer load. More efficient mechanical dewatering in the press section results in a more uniform sheet entering the steam-heated dryers, reducing the energy required for drying. This improved uniformity

can also enable increased machine speed, as less drying time is required, allowing additional product to be produced without increasing dryer steam generation.

Moisture Variation Reduction and Machine Speed Increase at a Fine Paper Mill

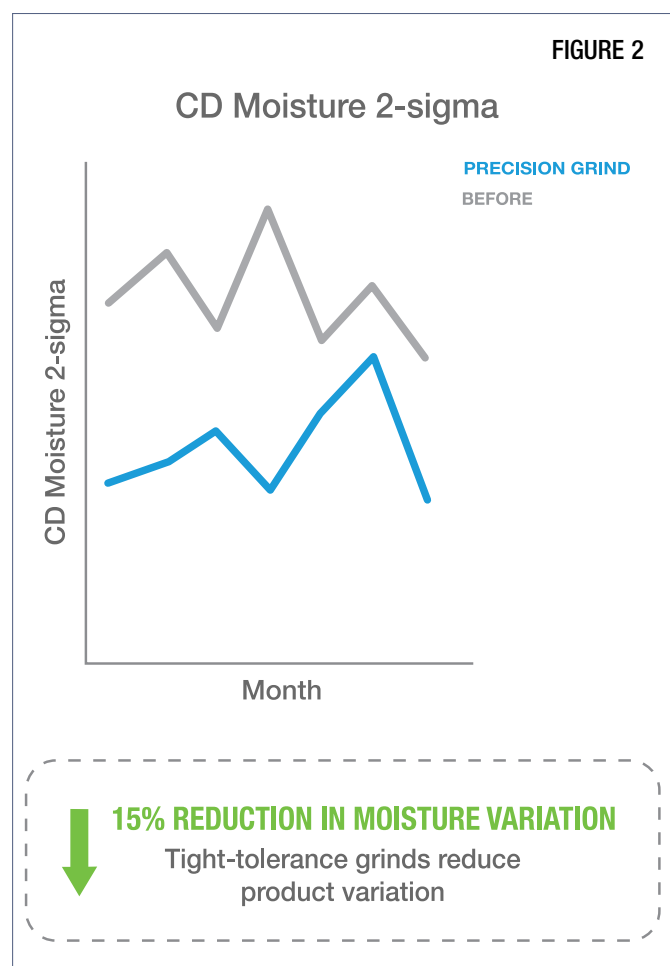
The benefits of precision roll grinding were recently on display at a fine paper facility. This mill wanted to increase machine speed but was limited by moisture variation from the press section. The mill chose to partner with Precision Roll Grinders to service a variable crown press roll, shown in **Figure 1** in blue. The machine performance was monitored over a 1.5-year period to measure the improvements realized with precision roll grinds.

The tighter tolerances of the precision ground roll greatly impacted moisture



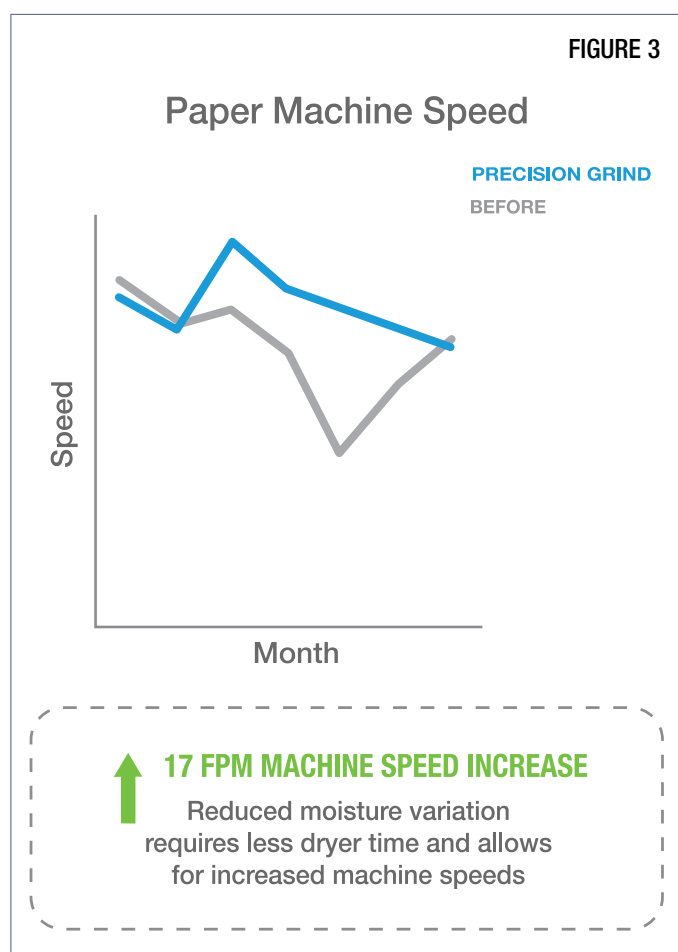
variation of the product leaving the press section. The study demonstrated a 15% reduction in cross-direction (CD) moisture 2-sigma after the precision ground press roll was installed (**Figure 2**). This improvement translated into decreased scrap and the reduced moisture variation allowed for reduced drying time. Production speed was increased by 17 feet per minute (FPM) upon installation of the precision ground roll (**Figure 3**).

In this study, quality roll servicing helped control moisture variation, opening the door to material savings from scrap reduction and allowing for increased machine speed and energy efficiency. Uptime improvements, improved product quality and increased machine speed were valued at \$150,000 annually. At this facility, these benefits were seen when replacing just one press roll; increased savings are possible by precision grinding more roll positions.



The Competitive Edge for Your Process

The fine paper facility featured was targeting improved paper quality and increased machine speed by reducing moisture variation and drying requirements. At other facilities, primary objectives can include raw material savings, energy savings,



scrap reduction, and increased roll run life. A paper manufacturer should partner with a roll grind provider that offers reduced variation, improved quality, and increased output with services tailored to the mill's unique needs.

About Precision Roll Grinders

Precision Roll Grinders (PRG) delivers these solutions to our customers. Founded in 1969 to serve the paper industry, PRG offers the most precise roll and cylindrical shaft grinding available. Our four locations in Pennsylvania (Allentown), Georgia (Carrollton), Kentucky (Lewisport), and Arkansas (Texarkana) service clients world-wide.

With press and calender roll customers across the paper industry, PRG's full-service shops offer complete roll solutions with services including roll rebuilds, regrooving, hot and 3D grinding, bearing inspections, journal repair, static and dynamic leak testing, vibration testing, and dynamic balancing.

Precision Roll Grinders has become the globally recognized leader in critical roll grinding solutions. Contact PRG to get connected with your local account manager to determine what value PRG ground rolls can bring. Visit us at: precisionrollgrinders.com. ■

Strengthening Steam Reliability in Pulp & Paper: Preparedness, Planning, and Proven Solutions

In the pulp and paper industry, steam is fundamental to nearly every major process — from digesting and evaporation to chemical recovery and final product drying. Any disruption to steam supply, even a short one, can lead to immediate production losses, higher operating costs, and operational instability. Steam reliability is therefore a continuous priority for mill operators.

Even with disciplined maintenance and experienced personnel, unplanned boiler outages can occur. In one real-world example at a U.S. paper mill, a primary boiler failure put essential processes at risk and threatened costly downtime. The mill required a temporary steam solution while repairs were underway — and needed it quickly. A high-capacity trailer mounted rental boiler was mobilized and integrated with the mill's utilities and controls in parallel with the coordination of logistics, transportation and start-up, compressing the time to steam. The temporary unit went online fast, allowing the mill to maintain output and avoid prolonged outage impacts.

The takeaway is straightforward: when steam reliability is disrupted, the speed, readiness, and technical depth of your rental partner can determine whether you experience a controlled recovery or an extended shutdown.

What Makes Emergency Steam Support Successful?

Emergency rental boiler deployments are complex, and success hinges on more than just delivering a unit. Three factors consistently drive a safe, efficient outcome:



Two package watertube rental boilers in route for a temporary rental project.

1) Application engineering and rapid response

Rental solutions must be matched to actual process needs — pressure, temperature, capacity, turndown, emissions requirements, and integration with existing utilities and controls. Effective partners are well versed in application engineering, routing coordination, permitting considerations, and commissioning support to accelerate timelines without compromising safety. Clear scopes, site surveys (virtual or in person), and pre planning minimize friction once equipment arrives.

2) High capacity, well maintained equipment

Pulp & paper operations demand continuous duty steam production. Nationwide Boiler sustains a large, well-maintained fleet of trailer mounted package boilers and mobile boiler rooms, stored at multiple facilities across the U.S. to ensure regional availability

and faster dispatch. This disciplined maintenance and distribution strategy ensures units can be deployed quickly and brought online with confidence under sustained load.

3) Strong communication and site coordination

During an outage, clarity matters. Close collaboration among mill operations, maintenance, engineering, the rental provider, and on-site contractors reduces delays and supports a safe, efficient commissioning process. Defined points of contact, daily check ins, and shared milestones help keep the project on track.

Together, these practices help mills stabilize operations during unforeseen events and restore steam reliability with minimal disruption.

Looking Beyond Emergencies: The Value of In Stock Boilers

Emergency rentals are indispensable for managing unplanned outages. Yet many

mills also face strategic decisions about capital boiler replacements or capacity improvements, often constrained by lead times for new equipment. When manufacturing schedules extend, waiting for a build to order package boiler can introduce real risk to production planning.

That's where in stock, factory tested firetube and watertube boilers offer a practical advantage. Ready to ship inventory allows mills to shorten project timelines, mitigate uncertainty, and avoid production gaps associated with long equipment lead times. For facilities operating older infrastructure or planning upgrades, having access to pre-built units can be the difference between a schedule that protects output or one that doesn't.

Nationwide Boiler maintains in stock boilers engineered for rapid deployment and integration. For planned replacements, capacity additions, or contingency needs, this approach helps mills align project windows with operational realities and keep steam reliability front and center.

Building a Stronger Reliability Strategy

Steam reliability does not happen by accident. It's the product of disciplined maintenance, robust contingency planning, and a trusted partner ready to respond. Pulp & paper mills benefit from incorporating the following practices into their reliability strategy:

- **Update and test contingency plans for boiler outages.** Define decision paths, roles, and escalation procedures. Keep critical contact lists current and ensure stakeholders understand the plan.
- **Pre-identify rental partners and equipment profiles.** Know the capacities, pressure ranges, emissions requirements, and utility interfaces suitable for your site. Pre-planning reduces time to steam during an event.



Multiple 75,000 lb/hr. superheat rental boilers being installed for a long-term temporary steam requirement.

- **Assess existing boiler condition and lifecycle.** Use inspection data, reliability metrics, and performance trends to plan replacements before failures force the issue.
- **Evaluate in stock boiler options.** Align project timelines with available inventory to mitigate manufacturing queue risk and protect production schedules.
- **Strengthen cross functional communication.** Maintain open channels among operations, maintenance, engineering, and procurement to move quickly when conditions change.



180,000 lb/hr. in stock boiler delivery for expedited replacement project.

Backup planning should never be considered optional — it is essential to protecting production assets and sustaining mill efficiency.

Reliability, Preparedness, and Real-World Performance

For pulp & paper mills, reliability is measured in safe, continuous operation and predictable output. Whether responding to an unplanned outage or planning a long-term equipment upgrade, the path to dependable steam includes equipment readiness, engineering alignment, and coordinated execution. Including a qualified steam partner in your contingency plan strengthens reliability and supports operational continuity.

Reliable steam is built on preparation: when plans and solutions align, mills can keep steam — and production — moving.

About Nationwide Boiler

Since 1967, Nationwide Boiler has supported hundreds of companies and institutions in thousands of boiler installations throughout the world. Nationwide Boiler is involved in virtually every other aspect of the boiler industry including boiler system sales, leasing, turnkey installations, boiler parts, operations, service and repair. Visit us at: www.nationwideboiler.com. ■

Essco Incorporated: Proven for Performance for Over 60 Years

For more than half a century, Essco has been a trusted name in the pulp and paper industry, an industry where precision, reliability, and uptime aren't just goals, but essential operating requirements. Founded in 1939 as a one-man sales agency, Essco has grown into a global leader in engineered doctoring technology, known worldwide for systems that are built to perform and proven to last.

Today, Essco stands as one of the most respected doctor specialists in the world because it has remained true to its niche: developing and manufacturing high-performance doctor systems, blades, and holders designed specifically for the paper industry. While technologies, machines, and production demands have evolved over the decades, Essco's commitment to helping mills run cleaner, faster, and more efficiently has remained unwavering.

A Legacy Built on Engineering Excellence

Every Essco solution begins with deep process knowledge. From mid-sized lines to the fastest machines on the planet, paper machines place incredible demands on doctoring systems.

Essco's in-house engineers design every

system to meet the performance requirements of the application. They consider roll crown, loading pressure, blade geometry, material performance, and machine configuration.

This commitment to engineering precision is one reason Essco systems are known for durability, ease of maintenance, and consistent performance. Whether the doctor must remove water, clean a roll, manage fiber, or guide the sheet, Essco designs each product to deliver quantifiable, cost-effective results that help mills protect product quality and reduce downtime.

Custom Manufacturing in a State-of-the-Art Facility

All Essco doctor systems, blades, and holders are manufactured in Green Bay, Wisconsin, in one of the industry's most modern production facilities. The company's combination of precision manufacturing equipment, advanced material capabilities, and experienced technicians allows Essco to control every detail, from raw material selection through final assembly.

This vertical integration ensures that every product shipped carries the reliability and performance mills expect from the Essco name.

With sales and technical teams serving the United States, Canada, Mexico, Europe, South America, and Asia, Essco provides global reach with the accessibility and responsive service the industry demands.

Innovation That Moves the Industry Forward

Over the years, Essco has introduced several breakthrough doctoring technologies now considered industry standards, including:

- **Twinflex™** – the first twin-bladed press doctor installed in North America
- **Fiberline AC™** – Essco's proprietary carbon fiber doctor blade line



Essco's ETUniform™ blade holder is engineered to deliver uniform blade pressure along the full holder length, producing consistent cross-machine loading against the roll.

- **Etuniform™** – the industry's standard pneumatic, conforming blade holder
- **Redline AC™** – next-generation carbon fiber blades for demanding applications
- **Essco-lator** – the first patented pneumatic doctor oscillator
- **The Edge** – the first patented electronic doctor angle gauge

These innovations reflect Essco's long-standing commitment to improving performance, extending blade life, and giving mills solutions that deliver measurable results.

Service That Sets Essco Apart

Essco isn't just a doctor blade supplier, it is a doctor company. Technical assistance is always only a phone call away. Rush order are routine. And support extends from early design through installation, maintenance, and long-term performance optimization.

This focus on partnership is why operators and engineers around the world continue to trust Essco when doctoring performance truly matters.

The Essco Difference

Proven for performance. Built for reliability. Supported for the long haul.

To learn how Essco can support your mill with custom doctor solutions designed for today's production demands, visit us online or contact our team today: www.esscoincorporated.com. ■



Essco double doctor systems remain at the forefront of design technology, operating on high-capacity, high-speed paper machines worldwide.

Lighting That Performs Under Pressure: Reliable Solutions for High-Temperature Mill Environments

Inside pulp and paper mills, lighting conditions are some of the toughest in manufacturing. High ambient heat, continuous operation, and airborne moisture can all take a toll on electrical components. Reliable lighting is critical for worker safety and process visibility — but in high-temperature environments, many conventional fixtures struggle to keep up.

VM5 Lighting Solutions, LLC engineers lighting systems specifically for these demanding conditions. As a U.S.-based manufacturer of industrial-grade LED fixtures, VM5 focuses on combining thermal resilience with energy efficiency, helping mills improve reliability, safety, and sustainability.

Built for Heat, Engineered for Dependability

Unlike many commercial-grade LEDs that degrade quickly in hot conditions, VM5's lighting systems are purpose-built for sustained performance in environments exceeding 200°F.

Advanced thermal management, sealed housings, and vibration-resistant design ensure consistent illumination and long service life, even in areas exposed to radiant process heat or steam. With VM5's high-temperature-rated fixtures, pulp and

paper operations can dramatically reduce lighting-related maintenance. Fewer failures mean less downtime for replacements — a key advantage for plants that run 24/7 and depend on uninterrupted efficiency.

Reducing Energy Use in Harsh Conditions

Energy efficiency remains one of the most effective paths toward sustainability in mill operations. VM5's LED systems deliver up to 50% or more energy savings compared to traditional HID or fluorescent lighting — even in high-heat settings where other technologies lose efficiency or burn out prematurely.

By using long-life, thermally stable components, VM5 ensures its fixtures continue operating at peak performance, reducing both energy waste and maintenance costs. The result: lower operational expenses and measurable progress toward sustainability and emission-reduction goals.

Custom Solutions for Complex Facilities

Every mill presents unique lighting challenges — from elevated catwalks above dryers to damp basement areas near stock preparation equipment. VM5 works directly with customers to evaluate these conditions,



Advanced thermal management, sealed housings, and vibration-resistant design ensure consistent illumination and long service life, even in areas exposed to radiant process heat or steam.

selecting and positioning fixtures to optimize coverage, durability, and efficiency.

From system design to post-installation support, VM5 helps mills strengthen reliability and sustainability one fixture at a time.

Lighting the Future of Mill Performance

In high-temperature, high-demand pulp and paper environments, lighting must be as resilient as the machinery it supports. By uniting durability, thermal performance, and energy efficiency, VM5 Lighting Solutions delivers lighting made for the heat — and built for the long haul.

VM5 Lighting Solutions, LLC — Reliable; Sustainable; Built for the toughest environments. To learn more, visit: www.vm5lighting.com. ■



Managing Gearbox Failures in the Pulp and Paper Industry: Best Practices and Strategies

By Jack Conway, CEO, Atlanta Gear Works

Unplanned downtime poses a significant threat to productivity in the pulp and paper industry, with gearbox failures among the most disruptive of all issues. Such failures halt production lines for days or even weeks, triggering extensive costs: lost production, expedited repair charges, overtime labor, and potential penalties for unmet customer commitments.

The cumulative financial impact can severely erode profitability and strain relationships with suppliers and customers. For mill operators, preventing gearbox-related downtime has become a critical operational necessity requiring the support of a gearbox repair partner with best practices and resources. Here's what to look for when choosing that partner.

Technical Expertise at Routine Inspections

Routine inspections by qualified personnel are essential to preventing unexpected failures. Technicians experienced in the pulp and paper sector can identify early signs of wear, misalignment, or lubrication issues before they escalate into major breakdowns. Robust inspection protocols — combined with detailed reporting and actionable recommendations — allow mills to schedule repairs during planned outages rather than react to emergencies. When performed by specialists familiar with the unique demands of paper machine drives, pulpers, and vacuum pumps, these inspections significantly extend gearbox life and enhance overall equipment reliability.

Industry-Specific Knowledge

Working with a service provider that possesses deep knowledge of the pulp



Black Clawson #4 Hydrapulper Drive Gearbox before rebuild.

and paper industry is vital. Technicians and engineers who understand the specific operating conditions, equipment configurations, and performance requirements of paper machines, pulpers, and other mill systems can diagnose issues more accurately and recommend solutions that are truly effective. This industry-specific expertise makes a meaningful difference in both preventing failures and executing repairs efficiently.

Comprehensive Field Service and In-House Capabilities

A repair partner that offers in-place rebuilds and on-site machining cannot be stressed enough. Enabling technicians to perform critical work directly at the mill saves time by eliminating the need to remove and transport heavy gearboxes. It also dramatically reduces production interruptions, allowing mills to restore equipment faster and return to full operation sooner. When paired with in-house manufacturing, this approach ensures custom parts can be produced quickly and to exact specifications.



Rebuilt Black Clawson #4 Hydrapulper Drive Gearbox.

Selecting the Right Partner

Mills aiming to minimize downtime and maximize reliability should prioritize routine inspections, industry-specific expertise, and repair partners with in-place and in-house capabilities. Atlanta Gear Works (AGW) exemplifies a company that combines these best practices with substantial resources.

Since 1988, AGW has grown from a gearbox repair specialist into a trusted partner for the pulp and paper industry nationwide. The company offers 24/7 gearbox inspections, comprehensive in-place rebuilds, on-site machining, and full in-house manufacturing at its state-of-the-art facility in Dawsonville, Georgia — equipped with advanced CNC machines, gear hobbing, and precision grinding equipment.

For further information on strategies to support operational efficiency, please visit us at atlantagear.com or call 706.216.5040. ■



Jack Conway is co-founder and CEO of Atlanta Gear Works, a gearbox repair and manufacturing company founded in 1988 and headquartered in Dawsonville, Georgia.

IBS maXX: Save Up to \$2 Million per Year

The IBS Paper Performance Group is currently presenting a new, unique product line under the name maXX™. With this move, the world's leading specialist in paper machine optimization is responding to the massive increase in raw material and energy costs in the paper industry.

“Our maXX products are the direct answer to the current challenges that significantly affect the profitability of paper producers. The savings potential for our customers is up to 2 million euros annually, with a return on investment of just a few months,” says DI Erich Weitgasser, Technical Director of the IBS Group.

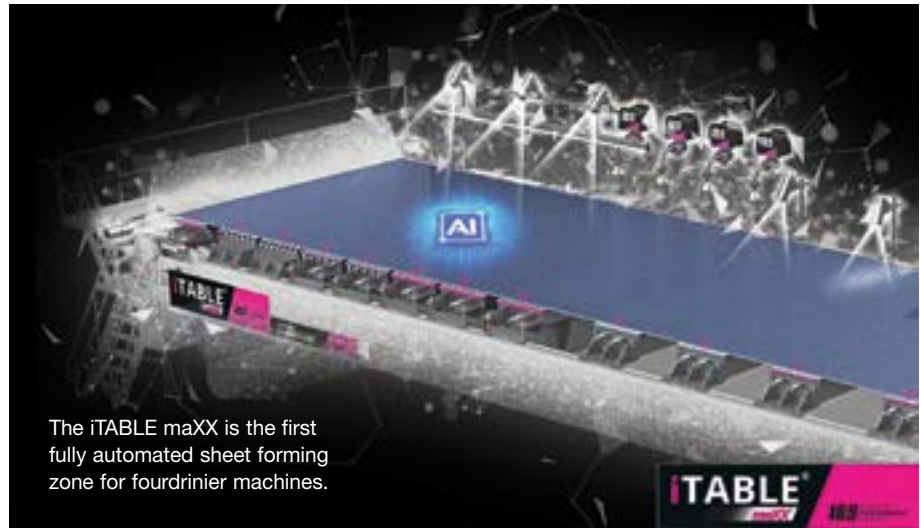
The First Fully Automated Sheet Forming Zone

The centerpiece of the new product line is the iTABLE® maXX. The iTABLE maXX is the first fully automated sheet forming zone for fourdrinier machines and the logical further development of the IBS iTABLE. The iTABLE maXX combines high-quality, perfectly coordinated products to create an unparalleled system solution. For this purpose, the group of companies relies on completely newly developed technologies and products.

Here is just a brief excerpt of the most important innovations:

Dewatering systems with ACTIVITY maXX. The newly developed and patented ACTIVITY maXX dewatering blades underscore the IBS Group's claim to be the innovation leader in dewatering technology for paper machines. This unique technology is the ultimate performance boost for the Austrian group's dewatering solutions, which have been proven thousands of times over and are continuously being further developed.

Machine vision solutions as an integral component. The camera-based solutions from Papertech, a subsidiary of the IBS Group, are an integral component of



iTABLE maXX. The innovative systems not only enable the measurement and monitoring of the jet impingement point, stock activity, formation, and wet line. They also provide crucial data for the intelligent control of dewatering components, vacuum, water line, jet impingement point, and much more.

New vacuum control systems. With EVA maXX and EPB maXX, IBS is also launching completely new versions of its proven vacuum control systems. These offer even greater precision and reliability in vacuum control in both high vacuum and low vacuum applications.

Automation & artificial intelligence. Thanks to the increased availability of data, iTABLE maXX offers a wide range of options for automating various processes. Among other things, artificial intelligence is also used for this purpose.

Dewatering elements 100% equipped with RFID. All dewatering elements delivered by the IBS Group from 2016 onwards, regardless of whether they are dewatering blades or dewatering covers, are equipped with RFID chips. These open up completely new possibilities for servicing the elements.

Installations Confirm Savings Potential

Based on over 250 iTABLE installations worldwide, the iTABLE maXX was specially developed to specifically reduce the most significant cost factors in paper production and thus further maximize operational efficiency. Experience shows that the return on investment for projects is only a few months. Many installations confirm the immense savings potential:

- **Fibers:** Savings potential of up to 15%.
- **Starch:** Savings potential of up to 30%.
- **Steam:** Savings potential of up to 15%.
- **Electricity:** Savings potential of up to 20%.
- **Production:** Increase of up to 15%.
- **Paper Quality:** Increase of up to 35%.

Audit Reveals Potential Savings

A customized audit by IBS experts is the first step in every project. IBS relies on a global network of experienced experts and paper manufacturers. As part of an audit, the individual savings potential of maXX™ products is assessed for each customer. Audits can be requested directly and without obligation at maxx@ibs-ppg.com. Find out more: www.ibs-ppg.com/en/maxx. ■



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Electric Guitar Made of Recycled Cardboard Plays as Functional Musical Instrument

Editor's note: The following article was originally published online by designboom.com.

Burls Art creates an electric guitar from air and recycled cardboard that still plays and works as a musical instrument. The craftsman's idea comes from a cardboard guitar made in a collaboration between Fender and Signal ten years ago. That guitar used corrugated cardboard as the main material, and the designer thought of upgrading the first version using the same materials but in a different way. He wanted to design a working electric guitar that is very light in weight, around three or four pounds, and since recycled corrugated cardboard is mostly air, it can weigh much less than a normal wooden instrument.

While the cardboard is strong for its weight, the challenge is to make the guitar strong enough to hold string tension. For the current model, Burls Art uses laminated sheets of recycled cardboard without casting the body in resin.

Instead, each layer of cardboard is soaked in resin before stacking to make the paper material stable and strong enough while keeping the hollow flutes inside each sheet. After lamination, the cardboard gives him a thick blank that's easy to cut and shape with woodworking tools. He finishes the process by removing the excess resin and then planing the surface with a router sled.

The body of Burls Art's musical instrument made of recycled cardboard follows the shape of a standard electric guitar. The



Burls Art uses laminated sheets of recycled cardboard without casting the body in resin. *Image courtesy: Burls Arts*

designer switches from used shipping boxes to new cardboard sheets to avoid dents or folds that could change the final shape, and the laminated body also shows the corrugated openings to create a surface where some parts of the guitar can be seen through from certain angles.

Resin Removes Air Pockets in the Paper-Made Instrument

The neck of the electric guitar made of recycled cardboard needs more strength than the body because it holds the strings tight. The craftsman then investigates two ways to orient the cardboard sheets: cutting through the long side of the flutes or cutting along the short side. In the video he uploaded on Youtube, Burls Art also tests an alternated pattern because a cardboard chair shown at the London Design Museum uses this method.

See the Guitar Being Built

The complete article, along with more pictures and a video of the guitar being built by Burls Art, is available on designboom's website: www.designboom.com/technology/electric-guitar-air-recycled-cardboard-musical-instrument-burls-art-12-08-2025. ■



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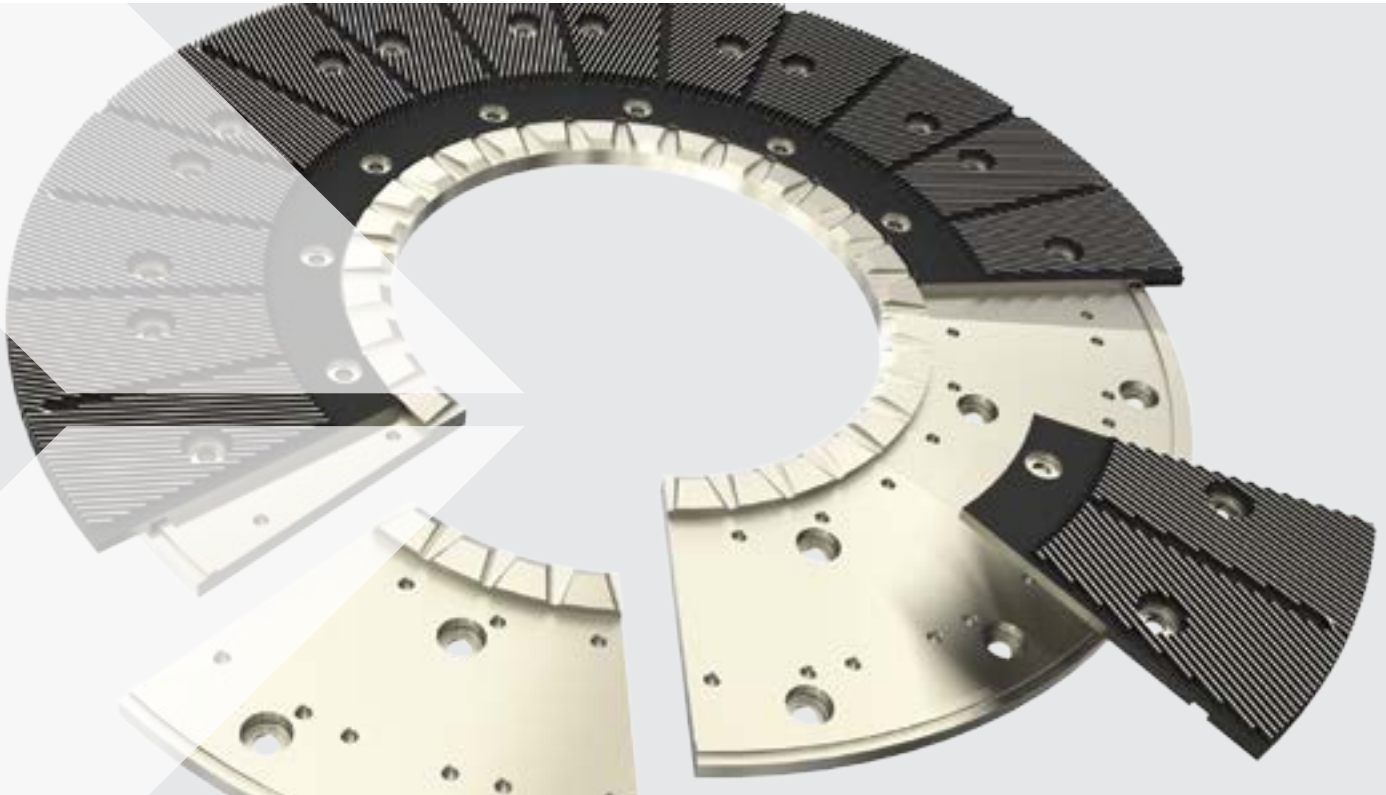
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Cut changeover time in half with easy-to-install refiner segments



Mills often face challenges with traditional refiner segments, from excessive weight to time-consuming changes. What if there was a solution that could reduce segment weight by 75% and decrease changeover time by as much as 50%? Designed for higher refining capacity, lower intensity, and longer plate life, Valmet's Pro safe segments provide a practical answer to common refining issues—helping mills improve safety and productivity.

Looking to increase your refining capacity while increasing operator safety? The Pro safe can help! Learn more: www.valmet.com/prosafe

